

wherein:

$n$  is 1-3;

$\text{R}$  is selected from the group consisting of methyl and ethyl;

$\text{R}_f$  is selected from the group consisting of perfluorinated alkyls having 1-20 carbons, or an oxaperfluorinated polyether having from about 4-20 carbons;

$\text{R}^1$  is a divalent hydrocarbyl radical;

$\text{X}$  is 1-20;

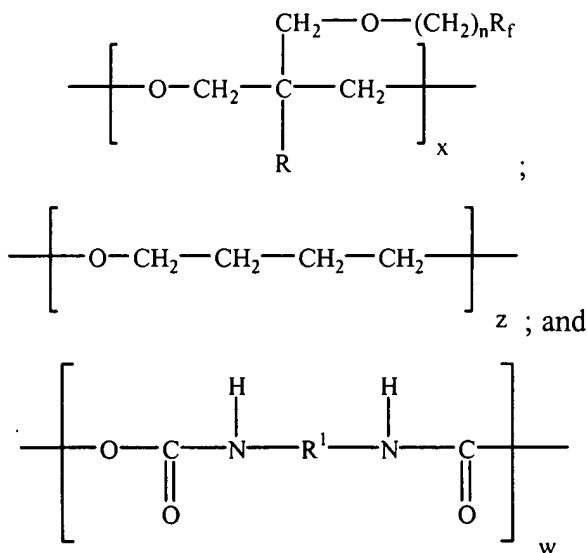
$\text{Y}$  is 10-150; and

$\text{Z}$  is 2-50.--

IN THE CLAIMS:

Please amend claims 20, 23, 24, 25, 26, 27 and 28 in the following manner:

- 1                    20. (Amended) A fluorinated polyurethane elastomer having FOX/THF segments  
 2    and comprising a mixture of monomeric repeat units having the general formulae:



wherein:

each  $n$  is independently selected and is a number from 1 to 3;

each  $\text{R}$  is independently selected from the group consisting of methyl and ethyl;

9 each  $R_f$  is independently selected from the group consisting of linear and branched  
10 perfluorinated alkyls and isoalkyls having from 1 to about 20 carbons, and  
11 oxa-perfluorinated polyethers having from about 4 to about 60 carbons;  
12 x is about 10 to about 250;  
13 z is 1 to about 250;  
14  $R_1$  is a divalent hydrocarbyl radical; and  
15 w is 1 to about 50.

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1 23. (Amended) The fluorinated polyurethane elastomer in accordance with claim 20,  
2 wherein the isocyanate segment is produced from a member selected from the group consisting of  
3 hexamethylene diisocyanate (HDI), isophorone diisocyanate (IPDI), 4,4'-methylene diphenyl-  
4 isocyanate (MDI), polymeric MDI, toluene diisocyanates, hydrogenated MDI (HMDI), polymeric  
5 HDI, trimethylhexane diisocyanate and mixtures of at least two thereof.

1 24. (Amended) The fluorinated polyurethane elastomer in accordance with claim 20,  
2 further comprising a cross-link formed from a cross-linking agent or a chain-extender selected from  
3 the group consisting of low molecular weight polyols and polyamines.

1 25. (Amended) The fluorinated polyurethane elastomer in accordance with claim 24,  
2 wherein said cross-linking agent is selected from the group consisting of trimethylolpropane,  
3 pentaerythritol, trimethylolethane, triethanolamine, 1,4-butanediamine, xylene diamine,  
4 diethylenetriamine, methylene dianiline and diethanolamine.

1 26. (Amended) The fluorinated polyurethane elastomer in accordance with claim 24,  
2 wherein said chain extender is a member selected from the group consisting of 1,4-butanediol; 1,3-  
3 propanediol; and benzenedimethanol.

1 27. (Amended) The fluorinated polyurethane elastomer in accordance with claim 24,  
2 wherein said chain extender is 1,4-butanediol.

1 28. (Amended) The fluorinated polyurethane elastomer in accordance with claim 20,  
2 wherein the fluorinated polyether segment is produced from at least one mono-substituted FOX  
3 monomer selected from the group consisting of 3-(2,2,2-trifluoroethoxymethyl)-3-methyloxetane; 3-